

FORM PTO-1449

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Attorney Docket Number	39943/PAN/C715
Application Number	09/871,492
Filing Date	May 31, 2001
Applicant(s)	Kent D. Choquette, et al.
Group Art Unit	2881 2815
Examiner Name	To be Assigned Matthew

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Mew	5,719,894	02/1998	Jewell et al.	372	45	
	5,719,895	02/1998	Jewell et al.	372	45	
	5,805,624	09/1998	Yang et al.	372	45	
	5,825,796	10/1998	Jewell et al.	372	45	
	5,903,589	05/1999	Jewell	372	46	
	5,912,913	06/1999	Kondow et al.	372	45	
	5,936,266	08/1999	Holonyak, Jr. et al.	257	106	
	5,960,018	09/1999	Jewell et al.	372	45	
↓	6,014,395	01/2000	Jewell	372	45	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
Mew	HEI 5 [1993]- 297128	06/1995	Japan	3	18	X	

OTHER DOCUMENTS

EXAMINER INITIALS	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
Mew	J. BOUCART et al., 1-mW CW-RT Monolithic VCSEL at 1.55 μ m, IEEE PHOTONICS TECHNOLOGY LETTERS, June 1999, pp. 629-631, Vol. II, No. 6
	SHIRO SAKAI et al., Band Gap Energy and Band Lineup of III-V Alloy Semiconductors Incorporating Nitrogen and Boron, Jpn. J. Appl. Phys., October 1993, pp. 4413-4416, Vol. 32 Part 1, No. 10
↓	M. C. LARSON et al., GaInNAs-GaAs Long-Wavelength Vertical-Cavity Surface-Emitting Laser Diodes, IEEE PHOTONICS TECHNOLOGY LETTERS, February 1998, pp. 188-190, Vol. 10, No. 2

EXAMINER
SIGNATURE

Matthew Wanner

DATE
CONSIDERED

12/11/02

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Sheet 1 of 2

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MW	MASAHIKO KONDOW et al., Gas-Source Molecular Beam Epitaxy of GaN _x As _{1-x} Using a N Radical as the N Source, Jpn. J. Appl. Phys., August 1994, pp. 1056-1058, Vol. 33, Part 2, No. 8A
MW	MASAHIKO KONDOW et al., Room-Temperature Pulsed Operation of GaInN As Laser Diodes with Excellent High-Temperature Performance, Jpn. J. Appl. Phys., November 1996, pp. 5711-5713, Vol. 35, Part 1, No. 11

EXAMINER SIGNATURE	Matthew E. Warner	DATE CONSIDERED	12/11/02
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Examiner Name	To be Assigned <i>Matthew</i>

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	Cite No. ¹	DOCUMENT NUMBER Number · kind code ² (If known)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE
<i>MW</i>	1	4,908,686	03-13-1990	Maserjian
	2	5,424,559	06-13-1995	Kasahara
	3	5,557,627	09-17-1996	Schneider, Jr. et al.
	4	5,960,018	09-28-1999	Jewell et al.
<i>↓</i>	5	6,052,398	04-18-2000	Brillouet et al.

class sub class

FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	Cite No. ¹	Foreign Patent Document Country Code ³ · Number ⁴ · Kind Code ⁵ (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶ (✓)

OTHER DOCUMENTS

EXAMINER INITIALS	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

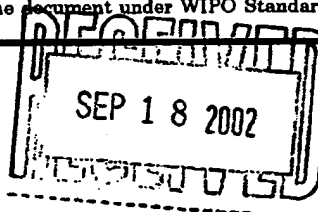
EXAMINER SIGNATURE	<i>Matthew Warner</i>	DATE CONSIDERED	<i>5/25/03</i>
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Form PTO-1
(SNL-Modified)
(9/94)**SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

(37 CFR 1.98(b))

ATTY. DOCKET NO.
39943/PAN/C715SERIAL NO.
09/ 871,492APPLICANT
Choquette et alFILING DATE
May 31, 2001GROUP
2815**U. S. PATENT DOCUMENTS**

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
<i>NEW</i>	1	EP 0 822 630 A1	4/2/98	European Pat. Ofc.	H01S	3/085		
	2	WO 98/07218	2/19/98	WIPO PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

↓	1	K.L.Lear, A. Mar, K.D. Choquette, S.P. Kilcoyne, R.P. Schneider, Jr., and K.M. Geib, "High-Frequency Modulation of Oxide Confined Vertical Cavity Surface Emitting Lasers," <u>Electronics Letters</u> , vol. 32, pp. 457-458, 29 Feb. 1996.
	2	N. Ohnoki, F. Koyama and K. Iga, "Super-Lattice AlAs/AlInAs for Lateral-Oxide Current Confinement in InP-Based Lasers," <u>Journal of Crystal Growth</u> , vol. 195, pp. 603-608, 1998.

EXAMINER

Matthew E. Warner

DATE CONSIDERED

5/25/03

FORM PTO/SB/08A/B (10-01)
Substitute for PTO-1449A/BINFORMATION DISCLOSURE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶ (<input checked="" type="checkbox"/>)
Mew		EP 0 822 630 A1	02-04-1998	Hewlett-Packard Company	
		WO 98/07218	02-19-1998	W.L. Gore & Associates, Inc.	

OTHER DOCUMENTS

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		LEAR K L ET AL. "High-frequency modulation of oxide-confined vertical cavity surface emitting lasers" ELECTRONICS LETTER, IEE STEVENAGE, GB, vol. 32, no. 5, 29 February 1996, pages 457-458
		OHNOKI N ET AL. "Super-lattice AlAs/AlInAs for lateral-oxide current confinement in InP-based lasers" JOURNAL OF CRYSTAL GROWTH, NORTH-HOLLAND PUBLISHING CO. AMSTERDAM, NL, vol. 195, no. 1-4, 15 December 1998, pages 603-608

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